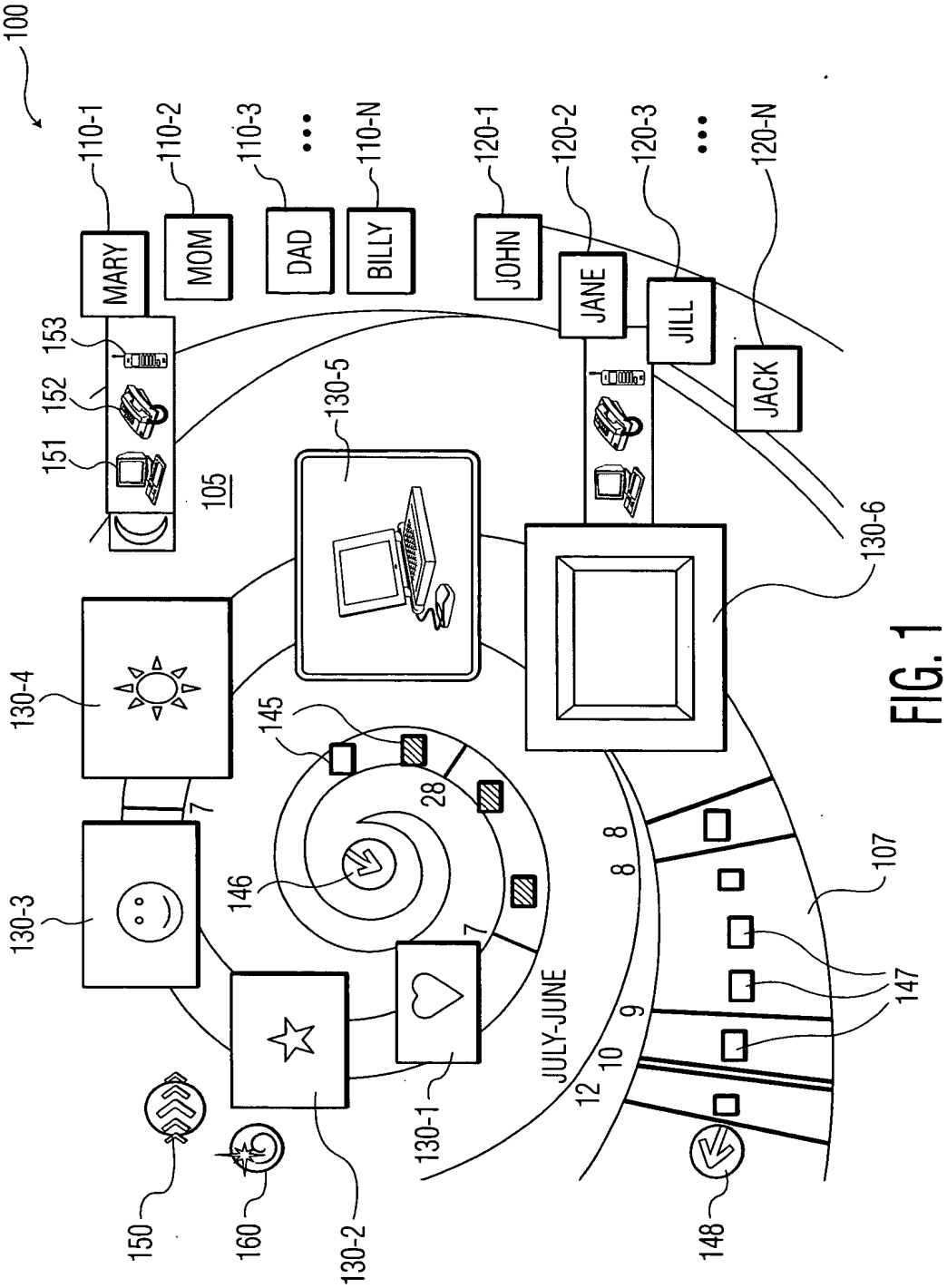
100
110-1
MARY
110-2
MOM
110-3
DAD
110-N
BILLY
120-1
JOHN
120-2
JANE
120-3
JILL
120-N
JACK
153
152
151
105
130-5
130-6
130-4
130-3
145
146
28
7
8
8
107
147
JULY-JUNE
12
10
9
130-1
130-2
150
160
148

FIG. 1

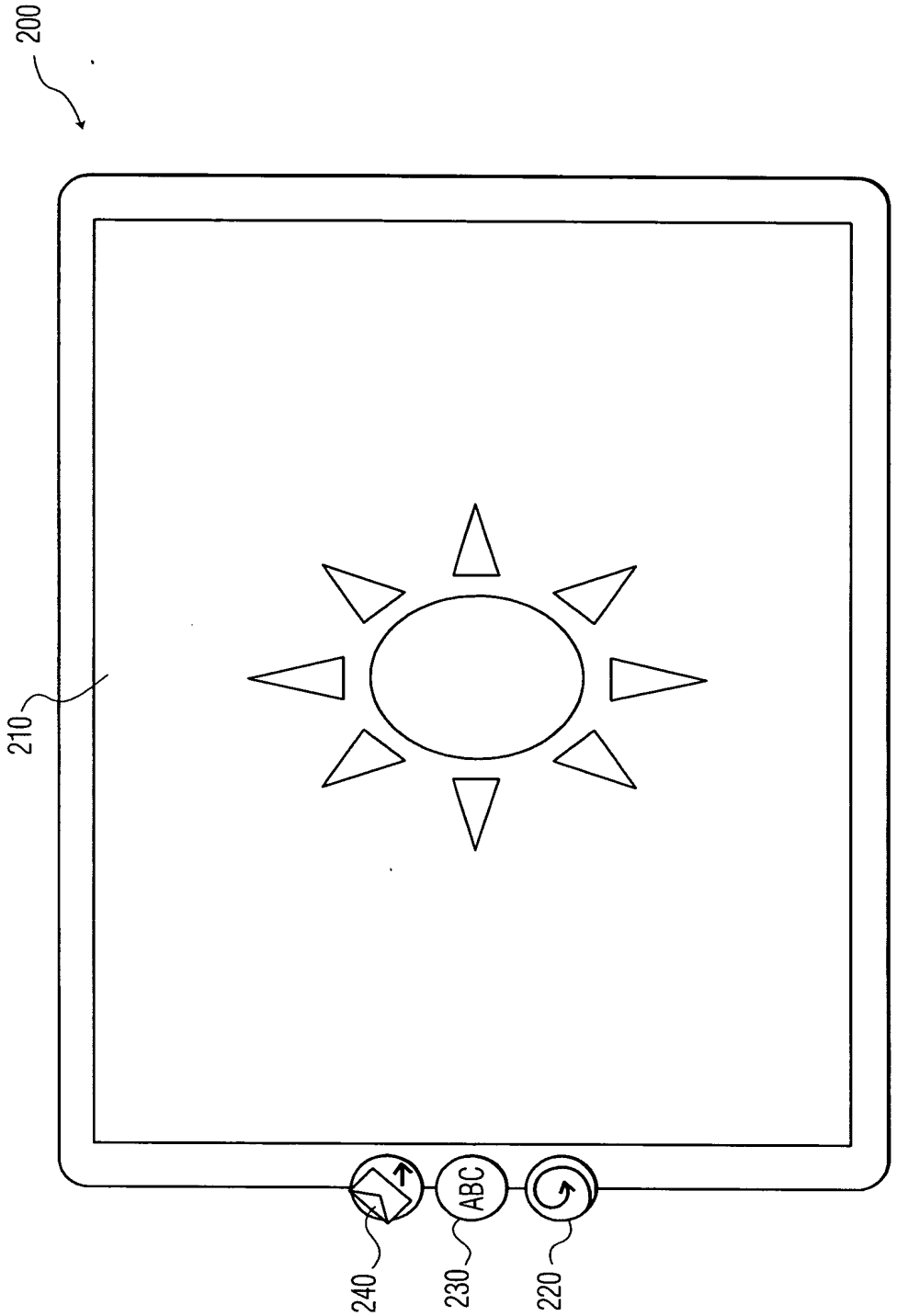

FIG. 2

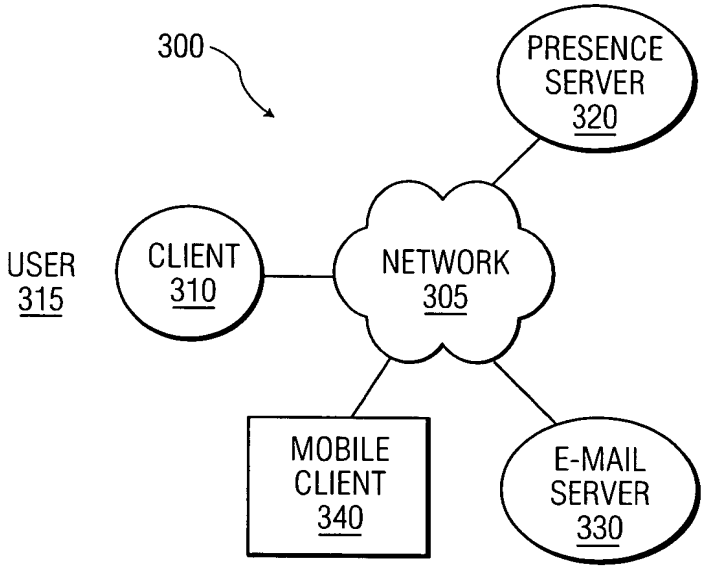
300
PRESENCE SERVER 320
USER 315
CLIENT 310
NETWORK 305
MOBILE CLIENT 340
E-MAIL SERVER 330

FIG. 3

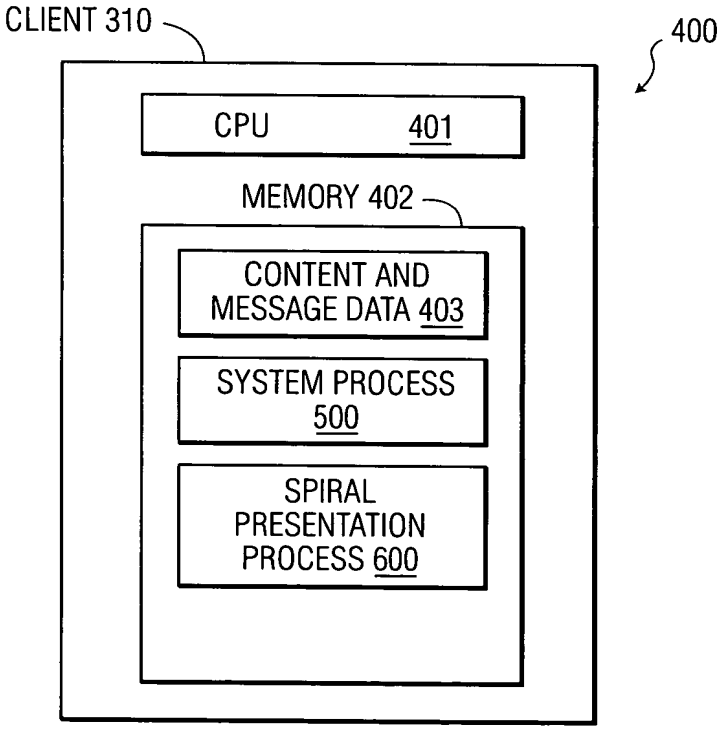
CLIENT 310
400
CPU 401
MEMORY 402
CONTENT AND MESSAGE DATA 403
SYSTEM PROCESS 500
SPIRAL PRESENTATION PROCESS 600

FIG. 4

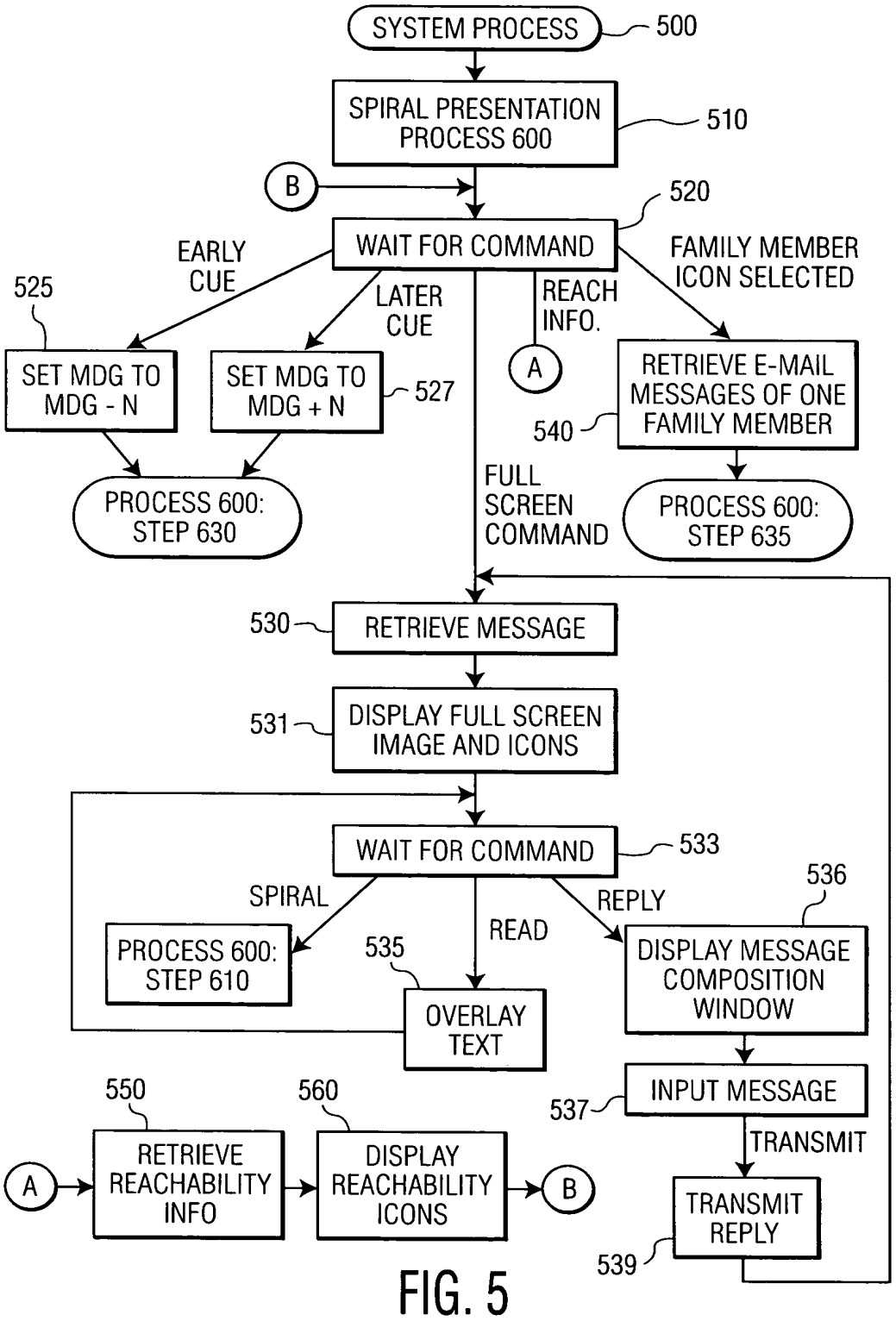
SYSTEM PROCESS
500
SPIRAL PRESENTATION PROCESS 600
510
B
520
WAIT FOR COMMAND
EARLY CUE
LATER CUE
REACH INFO.
FAMILY MEMBER ICON SELECTED
525
SET MDG TO MDG - N
SET MDG TO MDG + N
527
A
RETRIEVE E-MAIL MESSAGES OF ONE FAMILY MEMBER
540
PROCESS 600: STEP 630
FULL SCREEN COMMAND
PROCESS 600: STEP 635
530
RETRIEVE MESSAGE
531
DISPLAY FULL SCREEN IMAGE AND ICONS
WAIT FOR COMMAND
533
536
SPIRAL
READ
REPLY
PROCESS 600: STEP 610
535
OVERLAY TEXT
DISPLAY MESSAGE COMPOSITION WINDOW
INPUT MESSAGE
537
TRANSMIT
550
560
A
RETRIEVE REACHABILITY INFO
DISPLAY REACHABILITY ICONS
B
TRANSMIT REPLY
539

FIG. 5

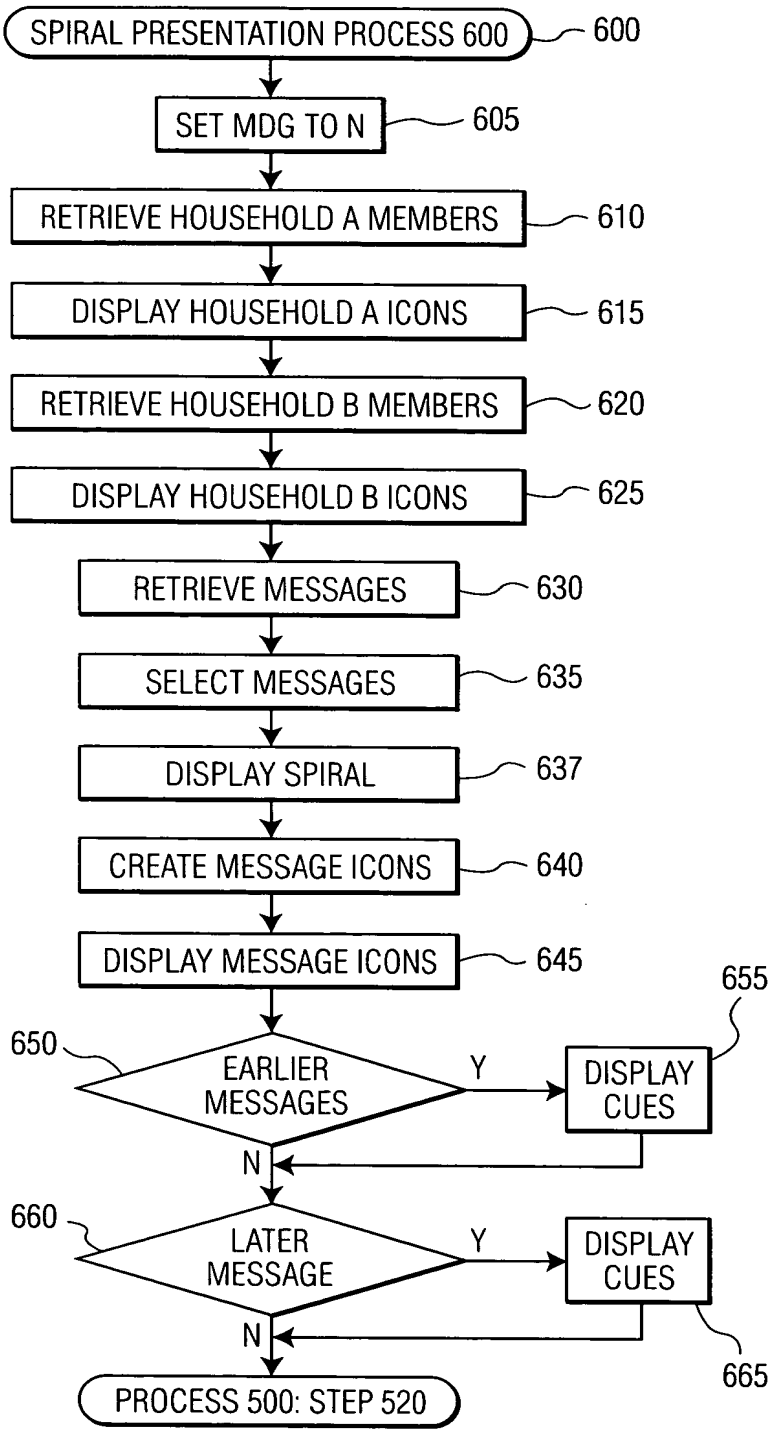
SPIRAL PRESENTATION PROCESS 600
600
SET MDG TO N
605
RETRIEVE HOUSEHOLD A MEMBERS
610
DISPLAY HOUSEHOLD A ICONS
615
RETRIEVE HOUSEHOLD B MEMBERS
620
DISPLAY HOUSEHOLD B ICONS
625
RETRIEVE MESSAGES
630
SELECT MESSAGES
635
DISPLAY SPIRAL
637
CREATE MESSAGE ICONS
640
DISPLAY MESSAGE ICONS
645
650
EARLIER MESSAGES
Y
DISPLAY CUES
655
N
660
LATER MESSAGE
Y
DISPLAY CUES
665
N
PROCESS 500: STEP 520

FIG. 6